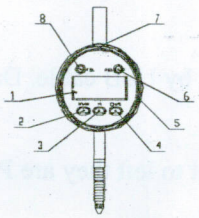
USER'S MANUAL OF
ELECTRONIC DIGITAL ABS INDICATORS

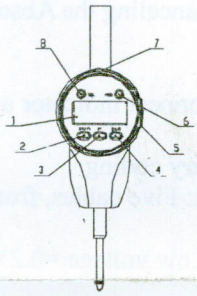
This instruction is suitable for 0-12.7mm, 0-25mm, 0-50mm Digital Indicator

1, LCD Display 2, mm/inch conversion 3, Mode function button 4, On/Off
5, Data output port 6, ABS button 7, Battery cover 8, TOL Setting button

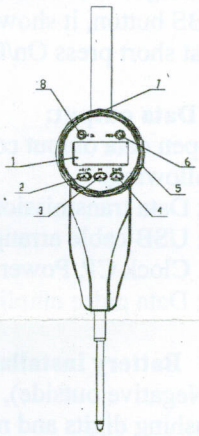
● **Technology Features:**
Resolution: 0.01mm
Power: 3V CR1632 Lithium Battery
Temperature: 0～+40℃
Storing Temperature: -10～+60℃
Operating Humidity: =80%



0-12.7mm



0-25mm



0-50mm

● **Functions:**
1, Zero-setting at any position
2, Metric/Inch conversion at any position
3, Data hold
4, Fast tracing Max value during measurement
5, Fast tracing Min value during measurement
6, Fast tracing Jumping value during measurement
7, Identifying TOL value
8, ABS value measuring
9, Wire cable data output

● **Operation Instructions:**

1, Preparation:
Clean the digital indicator with soft and dry cloth

2, ON/O button:
Press On/O for Power on, ensure the measuring head contact with the work piece and compression approximately 0.2mm; then short press for Zero setting, it starts measuring. If it is Relative measuring condition (Default state, the display shown below REL), short press On/O for Zero setting at any position. If it is Absolute measuring condition (Setting means shown as following Point 6), short press On/O it returns to Relative measuring condition at any position (ABS converts to REL on the screen). Short press On/O again for Zero setting or longer press for Power off.

3, Mm/in conversion button:
Short press Mm /in button for converting mm/inch measurements, LCD display shows mm or in.

4, Mode function button:
Data Hold: short press M button display shows "HOLD" on the up right of screen, the measurements is hold, which is convenient for reading and recording. Short press again it recalls data hold function and return to normal display.

Fast tracing MAX value: Longer press M button till "MAX" shows, it will display the max value among measuring. Press again it returns to the current measuring value. Longer press M button it shows "MIN". Again longer press M, it shows △. The value on the top of screen disappear if longer press again, it returns to normal measuring condition. Or power off and power on afterwards for normal measuring condition.

Fast tracing MIN value: Longer press M button it shows "MAX", then longer press again till "MIN", it shows min value among measuring. Longer press M button, it shows △. When longer press M button

afterwards, the value on the top of screen disappear, it returns to normal measuring condition. Or power off and power on afterwards for normal measuring condition.

Fast tracing Jumping values: Repeat longer press M button till △ shows, it zero - setting automatically, when measuring it shows △=MAX-MIN. Longer press M button again, the value on the top of screen disappear, it returns to normal measuring condition. Or power off and power on afterwards for normal measuring condition.

5, TOL value setting: Pushing indicator to the highest or lowest point, longer press TOL button, it shows TOL SET on the left below screen, it gets the terminal value. Pushing indicator again to the lowest or highest point(If you push highest point when above the first push, pls choose lowest point here; if not pls choose highest point), longer press TOL button, it shows TOL on the left below screen, it gets the terminal value. After setting above two values, it automatically comes to TOL value Distinguish condition. When measuring, it shows GO if movements within the highest or lowest value; it shows NO GO and accordingly flashing, if movements exceed the highest or lowest value. Try to exit TOL Distinguish condition and return to the previous TOL value measuring condition, short press TOL.

6, Absolute(ABS) value button:

Default state of this kind of indicator is Relative Measuring Condition, and it shows REL on the below right of screen. Longer press ABS button, it shows SET below of screen, the first number flashing. Short press ON/O button, the first flashing number changes from 0-9. After setting the first letter, short ABS button, it can set the next number. The max number is 999.999. After setting all the numbers, longer press ABS button, it shows ABS on the below screen without any flashing number, it goes to Absolute measuring. Just short press On/O for canceling the Absolute measuring.

7, Data output:

Open data output cover, connect indicator and PC by USB cable. Data transmission parameters as following:

1: Data transmission: Binary coding

2: USB cable arrangement: Five cables, from right to left they are Power-, Zero setting port, Data port D, Clock CP, Power +.

3: Data pulse amplitude: Low voltage =0.2V, High voltage=1.3V

● **Battery installation method**: Open battery cover to take out old battery, put in a new battery (Attention: - Negative outside), then put the cover back. If a new digital indictor shows not clear and incomplete values, flashing digits and not-showing, it may cause low power by long time no use, pls just replace a new battery. Pls ensure the battery is full of power before putting into the indicator.

● **Note**:

1, Avoiding crashing, dropping when using digital indicator.

2, Keep the digital indicator clear, avoiding water, oil, dust penetration.

3, Cleaning with Anhydrous alcohol, do not use organic solvent such as acetone

4, Do not take off cover when no using data output port. Do not touch the output port with metal device for protecting the normal circuit

5, Avoid voltage, spark lettering, test high-pressure, connecting with direct voltage =3V and AC power

6, Power off after using, save battery.

7, Take out the battery if long time no use.

● **Trouble shooting methods:**

Troubles	Possible Causes	Solutions
Flashing digits	Low voltage	Replace the battery
No Display	1. Low voltage 2. Poor contact	1. Replace the battery 2. Adjust and clean the battery seat
Fixed digits at times	Software running error	Take out the battery and put it back after one minute